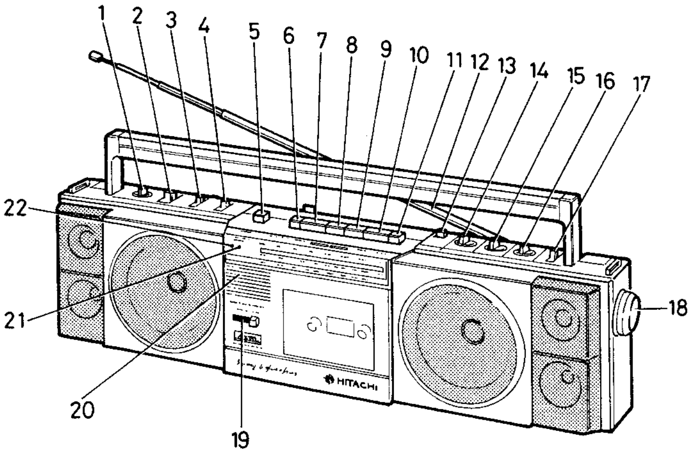
HITACHI
SERVICE MANUAL

TK | No. 1865E

1224

TRK-6701W



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KEY TO ILLUSTRATIONS

① MIXING VOLUME CONTROL
② FUNCTION SELECTOR
③ MODE SELECTOR
④ TAPE SELECTOR
⑤ EJECT BUTTON
⑥ PAUSE BUTTON
⑦ STOP BUTTON
⑧ FAST FORWARD/CUE BUTTON
⑨ REWIND/REVIEW BUTTON
⑩ PLAYBACK BUTTON
⑪ RECORD BUTTON
⑫ TELESCOPIC ANTENNA
⑬ LOUDNESS SWITCH
⑭ BASS CONTROL
⑮ TREBLE CONTROL
⑯ VOLUME CONTROL
⑰ BAND SELECTOR
⑱ TUNING CONTROL
⑲ TAPE COUNTER
⑳ LED LEVEL INDICATORS
㉑ FM STEREO INDICATOR
㉒ OPERATION INDICATOR

SAFETY PRECAUTION

The following precautions should be observed when servicing.

1. Since many parts in the unit have special safetyrelated characteristics, always use genuine Hitachi's replacement parts. Especially critical parts in the power circuit block should not be replaced with other makes.
   Critical parts are marked with ⚠ in the schematic diagram and circuit board diagram.
2. Before returning a repaired unit to the customer, the service technician must thoroughly test the unit to ascertain that it is completely safe to operate without danger of electrical shock.

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT

CASSETTE TAPE RECORDER WITH FM/SW/MW RADIO

December 1982 **TOKAI WORKS** 1224

INSPECTION OF MECHANISM

Item	Check Item		Reference Value	Remarks
1	Pressure of pressure roller		300 – 500g	Measure in playback mode
2	Torque	Take-up	35 – 75g.cm	
		Fast forward	90 – 150g.cm	Measure in fast forward mode
		Rewind	90 – 150g.cm	Measure in rewind mode
3	Back tension	Supply side	1.5 – 5.5g.cm	Measure in playback mode
		Take-up side	2.0 – 6.5g.cm	Measure in playback mode (with counter belt)
4	Brake torque		15g.cm or more	Measure in stop mode
5	Button operation force	Playback button	0.4 kg or less	———
		Fast forward button	0.5 kg or less	
		Rewind button	0.6 kg or less	
		Stop button	0.4 kg or less	
		Record button	0.45 kg or less	
		Pause button	0.45 kg or less	
6	Flywheel thrust gap		0.05 – 0.3 mm	———

LUBRICATIONS

Lubricate one or two drops of oil to rotating point or lubricate grease to sliding point. Lubricate the respective parts listed once every 1000 hours or once a year under normal conditions of use. Avoid oiling them excessively, or rotation may become irregular because of oil splashes.

Lubrication		Oil or Grease
Rotary section	Metal and metal	Pan motor oil (10W-40)
	Mold and metal	Sonic slider oil (#1600)
Sliding section	Metal and metal	Hitasol (MO-138)
	Mold and mold Mold and metal	White grease (FL-LUBE-A)
Spring resonance prevention		Floil (GB-TS-1)

SPECIFICATIONS

GENERAL SECTION

Semi-conductors:	IC's: 6 Transistors: 8 Diodes: 7 LED's: 10
Power (Mains) Supply:	AC: 115/220V, 50/60 Hz (Use accessory AC adaptor) DC: 9V ("C" Cell x 6 or equivalent)
Power output:	2.5W/CH (T.H.D. 10%), 15W P.M.P. (AC operation)
Speakers:	10 cm, 2.8 ohm x 2 4 cm, 140 ohm x 2 2 cm, 500 ohm x 2
Dimensions:	511(W) x 135(H) x 107.5(D)mm
Weight:	3.0 kg (with batteries)

RADIO SECTION

Circuit System:	FM/SW/MW 3-band superheterodyne
Tuning Range:	FM: 88 to 108 MHz SW: 3.2 to 12 MHz MW: 530 to 1605 kHz
Sensitivity:	FM: 10 dB (pra.), 0 dB (max.) SW: 45 dB (pra.), 35 dB (max.) MW: 48 dB (pra.), 38 dB (max.)
Intermediate Frequency:	FM: 10.7 MHz SW/MW: 455 kHz
Antennas (Aerials):	FM: Telescopic antenna SW/MW: Built-in ferrite-core antenna

TAPE RECORDER SECTION

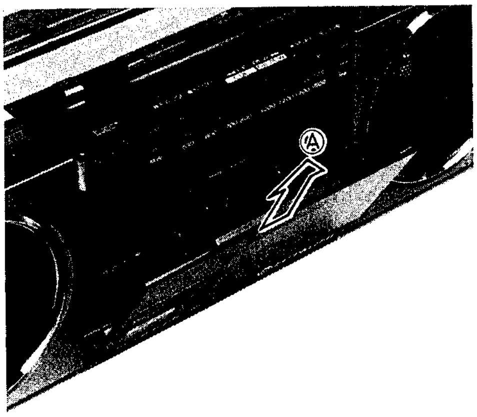
Tape:	Cassette tape (C-30, 60, 90)
Tape Speed:	4.75 cm/s
Track System:	4 track 2 channel
Recording System:	AC bias, 57 kHz
Erasing System:	AC erase
Frequency Response:	METAL: 50 to 14,000 Hz CrO_2 : 50 to 12,000 Hz Normal: 50 to 10,000 Hz
S/N (Signal to Noise Ratio):	45 dB
Wow and Flutter:	0.15% (WRMS)
Cross Talk:	60 dB (Between tracks) 30 dB (Between channels)
Erase Ratio:	70 dB
Input Sensitivity and Impedance:	MIX. MIC.: 1.5 mV, 10k ohms LINE IN: 400 mV, 100k ohms
Output Level and Impedance:	LINE OUT: 700 mV, 5k ohms Headphone: 8～2k ohms
Fast Forwarding or Rewinding Time:	120 sec. (Using C-60)
Distortion:	4%
Motor:	DC micromotor

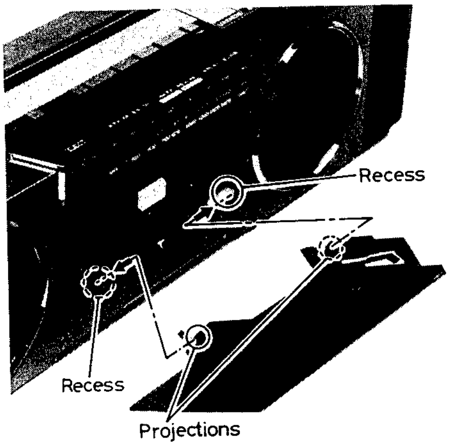
DISASSEMBLY

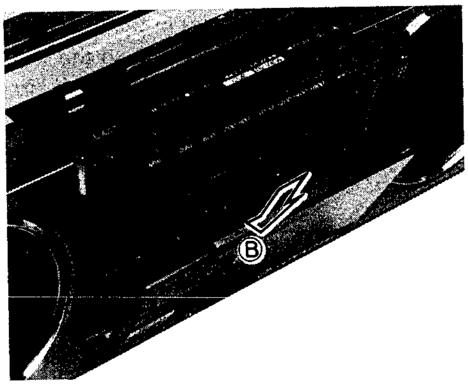
1. Cassette lid

1) Press the eject button to open the cassette lid.
2) Lift up the cassette lid in the direction of the arrow Ⓐ and pull out the cassette lid.

* When install the cassette lid, insert the projection of the cassette lid into the recess of the front case and push the cassette lid in the direction of the arrow Ⓑ.

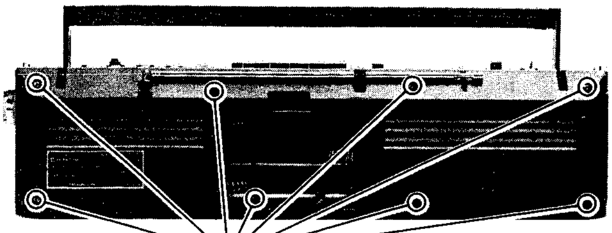






2. Rear case

1) Remove ten knobs (Tuning, Band, Volume, Treble, Bass, Loudness, Tape, Mode, Function, Mixing volume).
2) Remove Ⓒ (eight) screws.



3. Radio PC board

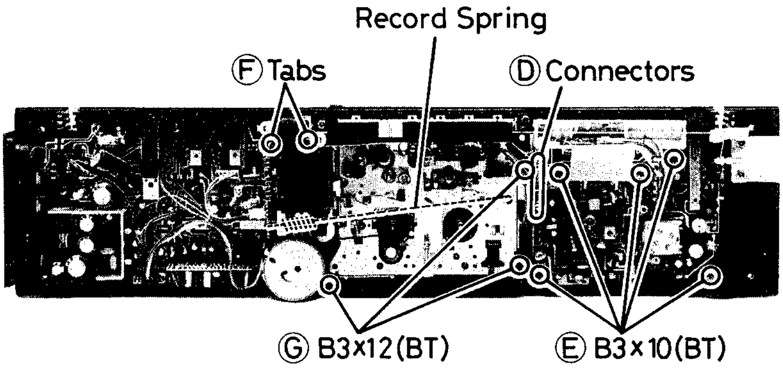
After removing the Ⓓ (two) connectors, remove the Ⓔ (five) screws.

4. Indicator PC board

Release locking of the two tabs (Ⓕ) and remove the PC board.

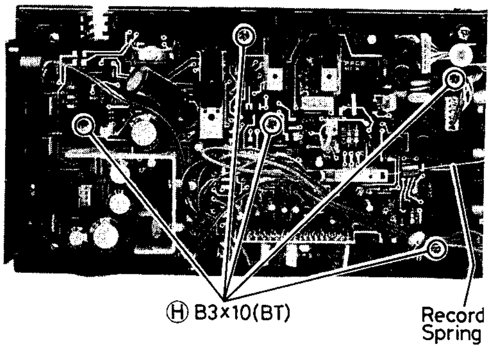
5. Cassette chassis

1) Remove the record spring from the record lever locate on chassis rear side.
2) Remove Ⓖ (three) screws.

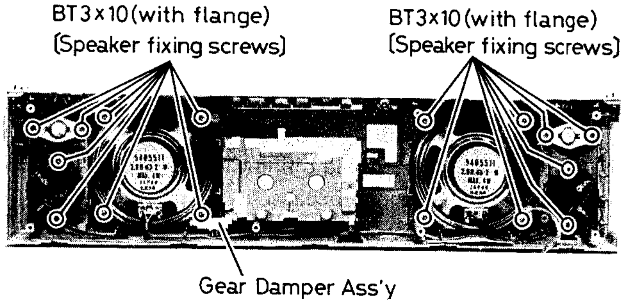

Record Spring
Ⓕ Tabs
Ⓓ Connectors
Ⓖ B3x12(BT)
Ⓔ B3x10(BT)

6. Tape/Audio PC board

After removing the cassette chassis and the record spring, remove the Ⓗ (five) screws.


Ⓗ B3x10(BT)
Record Spring

7. Others


BT3x10(with flange) [Speaker fixing screws]
BT3x10(with flange) [Speaker fixing screws]
Gear Damper Ass'y

ADJUSTMENT

1. Radio Section

Step		Adjustment Item	Measuring Instrument and Connection			Genescope or Signal Generator Frequency	Dial Pointer Position	Adjust	Reading
			Measuring Instrument	Input Terminal	Output Terminal				
1	(1)	FM IF	• FM signal generator (400Hz, 30% mod.) • Oscilloscope • VTVM	TP101, 102 (thru FM dummy antenna) (Note 3)	TP201	90 MHz	90 MHz	T101	Note 1
	(2)	FM S-curve	• Genescope (10.7 MHz)	TP103		10.7 MHz	Highest	–	Note 2
2	(1)	FM OSC. (Covering)	• FM signal generator (400Hz, 30% mod.) • Oscilloscope • VTVM	TP101, 102 (thru FM dummy antenna) (Note 3)	Speaker terminal (2.8Ωload)	87 MHz	Lowest	L102	Max.
	(2)					109 MHz	Highest	CT102	
	(3)					Repeat steps (1) and (2)			
3	(1)	FM ANT. (Tracking)				90 MHz	90 MHz	L101	Max.
	(2)					106 MHz	106 MHz	CT101	
	(3)					Repeat steps (1) and (2)			
4	(1)	FM MPX (Multiplex)	• Frequency counter	Connect a 10 μF 25V electrolytic capacitor between the No.2 pin of IC301 and ground.	TP301	—	—	RT301	19kHz ±200Hz (Note 4)
5	(1)	AM IF	• Genescope (455 kHz)	Ferrite-core antenna (Note 5)	TP201	455 kHz	Highest	—	Note 6
6	(1)	SW OSC. (Covering)	• AM Signal generator (400Hz, 30% mod.) • VTVM	Ferrite antenna (Note 5)	Speaker terminal (2.8Ωload)	3.15 MHz	Lowest	L153	Max.
	(2)					12.5 MHz	Highest	CT153	
	(3)					Repeat steps (1) and (2)			
7	(1)	SW ANT. (Tracking)				4 MHz	4 MHz	L151	Max.
	(2)					11 MHz	11 MHz	CT151	
	(3)					Repeat steps (1) and (2)			
8	(1)	MW OSC. (Covering)	• AM signal generator (400Hz, 30% mod.) • VTVM	Ferrite-core antenna (Note 5)	Speaker terminal (2.8Ωload)	515 kHz	Lowest	L154	Max.
	(2)					1650 kHz	Highest	CT154	
	(3)					Repeat steps (1) and (2)			
9	(1)	MW ANT. (Tracking)				600 kHz	600 kHz	L152	Max.
	(2)					1400 kHz	1400 kHz	CT152	
	(3)					Repeat steps (1) and (2)			

Note:

1. Feed in a 90 MHz (400 Hz, 30% mod.) weak signal to TP101 from the FM signal generator. Adjust T101 for maximum amplitude of 400 Hz signal shown in Figure 1.

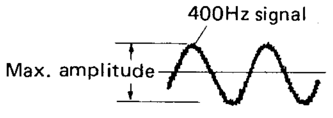


Fig. 1

2. Feed in a weak signal to TP103 from the genescope and confirm that the S-curve is obtained shown in Figure 2.

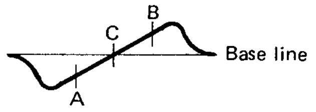
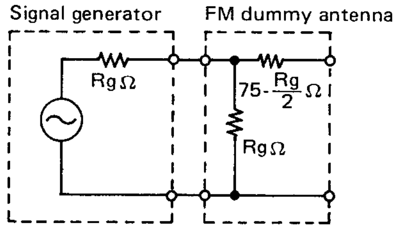


Fig. 2

3. FM dummy antenna shows Figure 3.



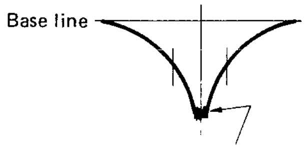
Rg: SG's output impedance

Fig. 3

4. Connect the frequency counter to TP301, via a resistor of 100 kΩ.

5. Connect AM signal generator to loop antenna, bring near to ferrite antenna.

6. Feed in a weak signal from the genescope and confirm that the waveform is obtained shown in Figure 4.



Adjust the genescope output so that there is a little noise riding on the leading edge.

Fig. 4

2. Tape Recorder Section

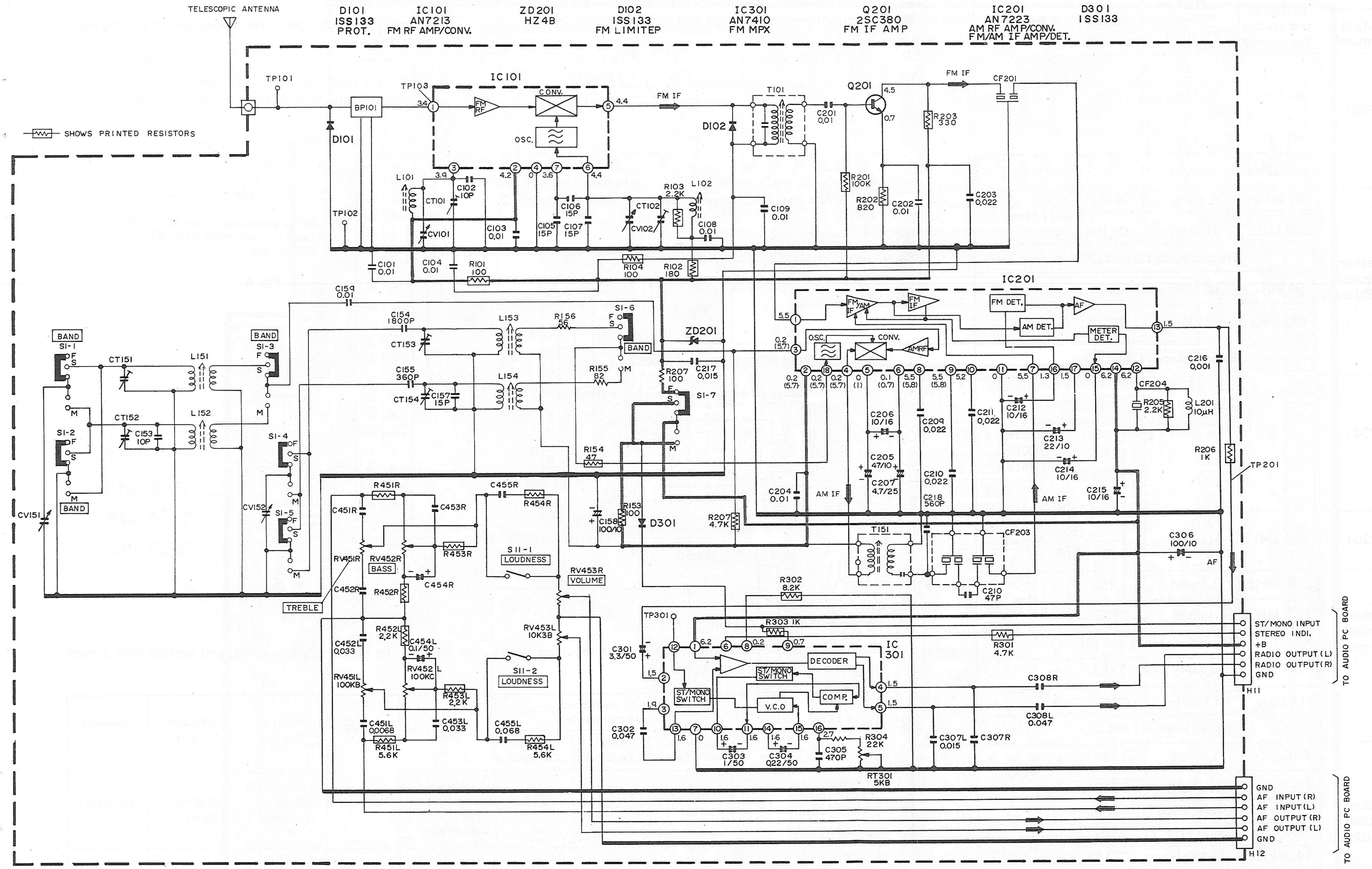
Perform the following adjustments in the sequence stated after cleaning the heads, pressure roller, and capstan with a head cleaning stick moisted in alcohol.

Item	Adjustments	Measuring Instrument and Connection			Check Tape	Mode	Adjusted Position	Adjusted Value	Remarks
		Measuring Instrument	Input Terminal	Output Terminal					
1	Tape speed	● Frequency counter	——	LINE OUT	Tape speed adjustment tape (3000 Hz)	Playback	Semivariable resistor in the motor	3000 Hz ±30 Hz	See Note 1
2	Head azimuth	● VTVM	——	LINE OUT	Head azimuth adjustment tape (10kHz)	Playback	Azimuth adjusting screw	Output Max.	See Note 2

Note:

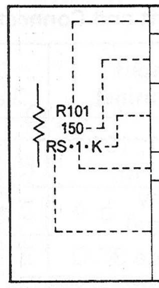
1. Adjust within 30 sec. after heat-running for more than 20 minutes.
2. When the maximum values of both channels are different, adjust to the maximum value of the L channel. In this case, the difference between the maximum values of both channels should be within 2 dB.

SCHEMATIC DIAGRAM (Radio Section)

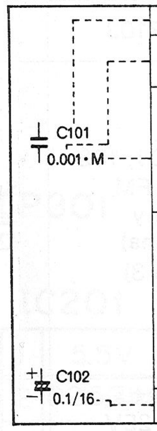

TELESCOPIC ANTENNA
D101 1SS133 PROT.
IC101 AN7213 FM RF AMP/CONV.
ZD201 HZ4B
D102 1SS133 FM LIMITEP
IC301 AN7410 FM MPX
Q201 2SC380 FM IF AMP
IC201 AN7223 AM RF AMP/CONV. FM/AM IF AMP/DET.
D301 1SS133
SHOWS PRINTED RESISTORS
TP101
TP102
TP103
TP201
TP301
BP101
CONV.
OSC.
FM RF
FM IF
T101
CF201
L101
L102
CT101
CT102
CV101
CV102
C102 10P
C103 0.01
C104 0.01
C105 15P
C106 15P
C107 15P
C108 0.01
C109 0.01
C101 0.01
R101 100
R102 180
R103 2.2K
R104 100
C201 0.01
C202 0.01
C203 0.022
R201 100K
R202 820
R203 330
C159 0.01
C154 1800P
C155 360P
C157 15P
C153 10P
CT151
CT152
CT153
CT154
L151
L152
L153
L154
R154 47
R155 82
R156 56
R207 100
C217 0.015
ZD201
BAND
S1-1
S1-2
S1-3
S1-4
S1-5
S1-6
S1-7
CV151
CV152
IC201
FM/AM IF
FM IF
FM DET.
AF
AM DET.
METER DET.
OSC.
CONV.
AM RF
C204 0.01
C205 47/10
C206 10/16
C207 4.7/25
C209 0.022
C210 0.022
C211 0.022
C212 10/16
C213 22/10
C214 10/16
C215 10/16
C216 0.001
C218 560P
C210 47P
CF203
CF204
R205 2.2K
L201 10μH
R206 1K
T151
AM IF
C306 100/10
AF
R153 100
C158 100/10
D301
R207 4.7K
R302 8.2K
R303 1K
R301 4.7K
IC 301
DECODER
ST/MONO SWITCH
V.C.O
COMP.
C301 3.3/50
C302 0.047
C303 1/50
C304 0.22/50
C305 470P
R304 22K
RT301 5KB
C307L 0.015
C307R
C308R
C308L 0.047
R451R
C451R
C453R
R453R
C455R
R454R
RV451R
RV452R BASS
C452R
R452R
C454R
TREBLE
S11-1 LOUDNESS
RV453R VOLUME
C452L 0.033
R452L 2.2K
C454L 0.1/50
RV452L 100KC
RV451L 100KB
R453L 2.2K
RV453L 10K3B
S11-2 LOUDNESS
C451L 0.0068
R451L 5.6K
C453L 0.033
C455L 0.068
R454L 5.6K
ST/MONO INPUT
STEREO INDI.
+B
RADIO OUTPUT (L)
RADIO OUTPUT (R)
GND
H11
TO AUDIO PC BOARD
GND
AF INPUT (R)
AF INPUT (L)
AF OUTPUT (R)
AF OUTPUT (L)
GND
H12
TO AUDIO PC BOARD

Note

1. Voltage measured at base of chassis with minimum volume control and no signal.
2. Nomenclature of Resistors and Capacitors.


R101
150
RS·1·K

	Circuit No.
Value	No indicated Ω(Ohm) M : 1000 kΩ
Tolerance	No indicated ±5% K : ±10% M : ±20%
Wattage	No indicated ¼W
Sort	No indicated Carbon film RC : Composition RW : Wire wound RS : Oxide metal film RN : Fixed metal film

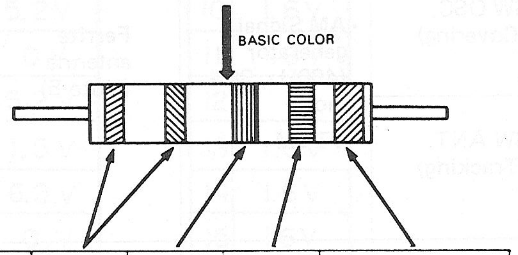

C101
0.001·M
C102
0.1/16

	Circuit No.	
Value	No indicated μF P : PF	
Tolerance	No indicated ±10% J : ± 5% M : ±20% Z : +80%, −20% D : ±0.5pF C : ±0.25pF	
Sort	⊣⊢	Ceramic
	+ −	Electrolitic
	M	Mylar
	P	Polyester
	S	Styrol
Voltage	No indicated 50WV	

3. Be sure to make your orders of resistors and capacitors with value, voltage, tolerance and sort.
4. When replacing capacitors marked with ※, use specified ones stated on parts list since required temperature characteristics.

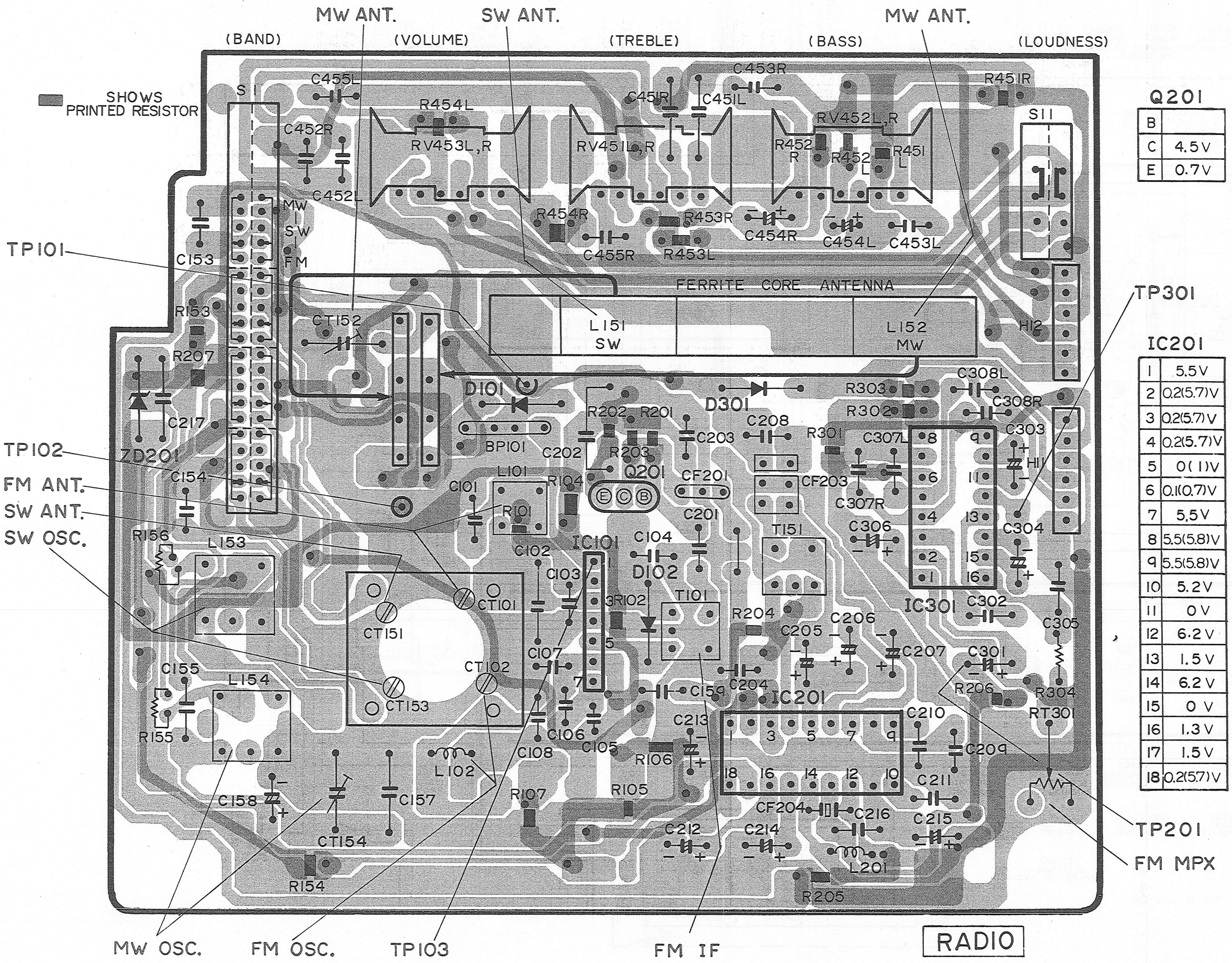
HOW TO READ CAPACITY OF RESISTOR SHAPE CAPACITORS

COLOR	RATED VOLTAGE
Pink	25V
Light green	50V


BASIC COLOR

COLOR	CAPACITY	MULTIPLE	TOLERANCE	CHARACTERISTICS
Black	0	10^{0}	±20%	For temperature compensation
Brown	1	10^{1}		
Red	2	10^{2}		
Orange	3	10^{3}		
Yellow	4	10^{4}		
Green	5	10^{5}		
Blue	6			
Violet	7			
Grey	8		±30%	High dielectric constant type
White	9			For temperature compensation
Gold		10^{1}	±5%	
Silver			±10%	High dielectric constant type

CIRCUIT BOARD DIAGRAM


SHOWS PRINTED RESISTOR
(BAND)
MW ANT.
(VOLUME)
SW ANT.
(TREBLE)
(BASS)
MW ANT.
(LOUDNESS)
S1
C455L
R454L
RV453L,R
C452R
C452L
C451R
C451L
RV451L,R
C453R
RV452L,R
R452R
R452L
R451L
R451R
S11
MW
SW
FM
C153
R454R
C455R
R453R
R453L
C454R
C454L
C453L
TP101
FERRITE CORE ANTENNA
L151 SW
L152 MW
R153
CT152
H12
R207
D101
D301
R303
R302
C308L
C308R
C217
ZD201
BP101
R202
R201
C208
C203
R301
C307L
C303
H11
C202
R203
Q201
E C B
CF201
CF203
C307R
TP102
C154
L101
R104
C101
R101
C201
T151
C306
C304
FM ANT.
SW ANT.
SW OSC.
R156
L153
C102
IC101
C104
D102
C103
R102
CT101
CT151
T101
R204
IC301
C302
C206
C205
C207
C305
C107
C301
CT102
C155
L154
R155
CT153
C159
C204
IC201
R206
R304
C213
C210
RT301
C106
C105
C108
R106
C209
L102
C158
C157
CT154
R107
R105
C211
CF204
C216
C215
C212
C214
L201
R154
R205
TP301
TP201
FM MPX
MW OSC.
FM OSC.
TP103
FM IF
RADIO

Q201

B	
C	4.5V
E	0.7V

IC101

1	3.4V
2	4.2V
3	3.9V
4	0V
5	4.4V
6	4.4V
7	3.6V

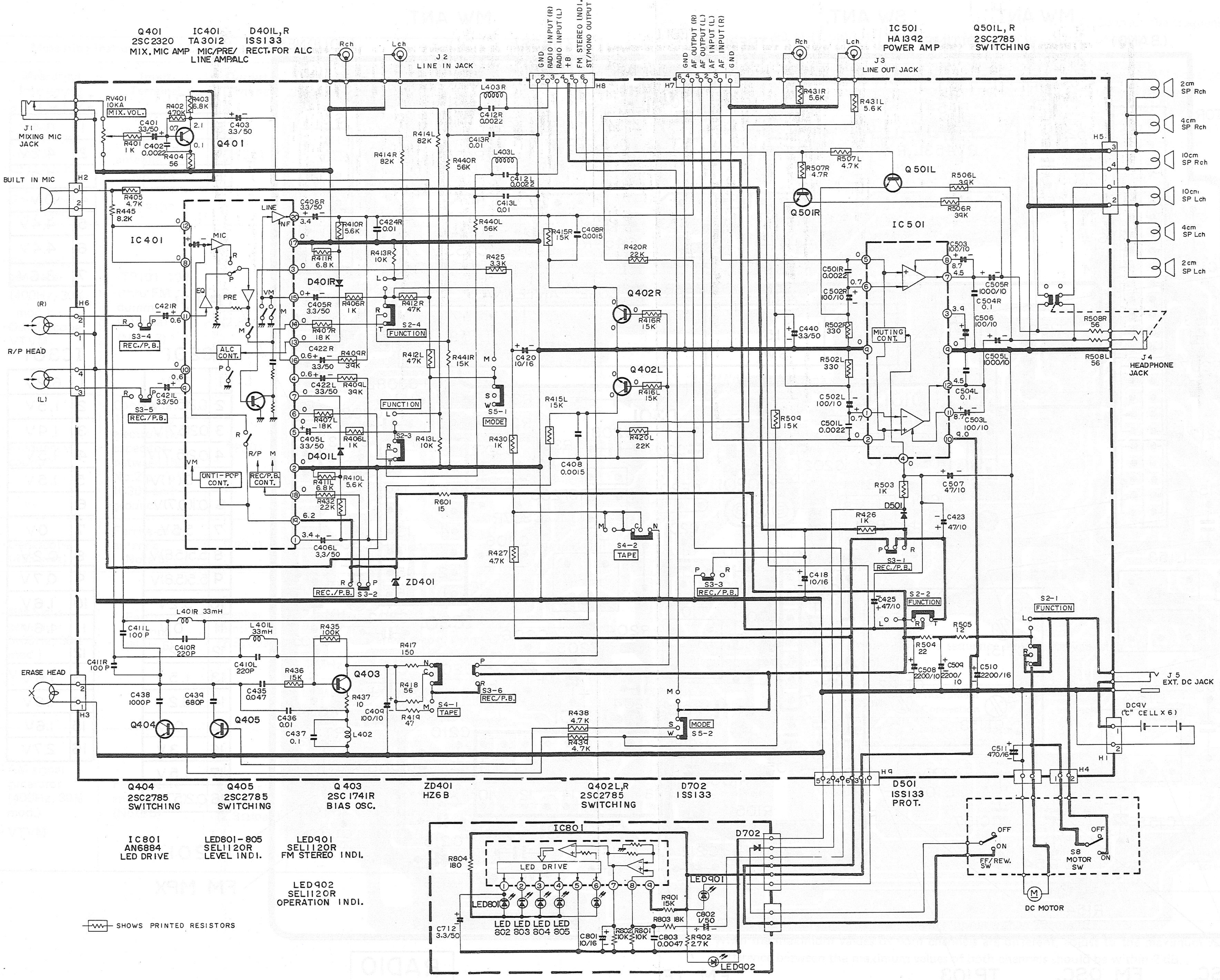
IC201

1	5.5V
2	0.2(5.7)V
3	0.2(5.7)V
4	0.2(5.7)V
5	0(1)V
6	0.1(0.7)V
7	5.5V
8	5.5(5.8)V
9	5.5(5.8)V
10	5.2V
11	0V
12	6.2V
13	1.5V
14	6.2V
15	0V
16	1.3V
17	1.5V
18	0.2(5.7)V

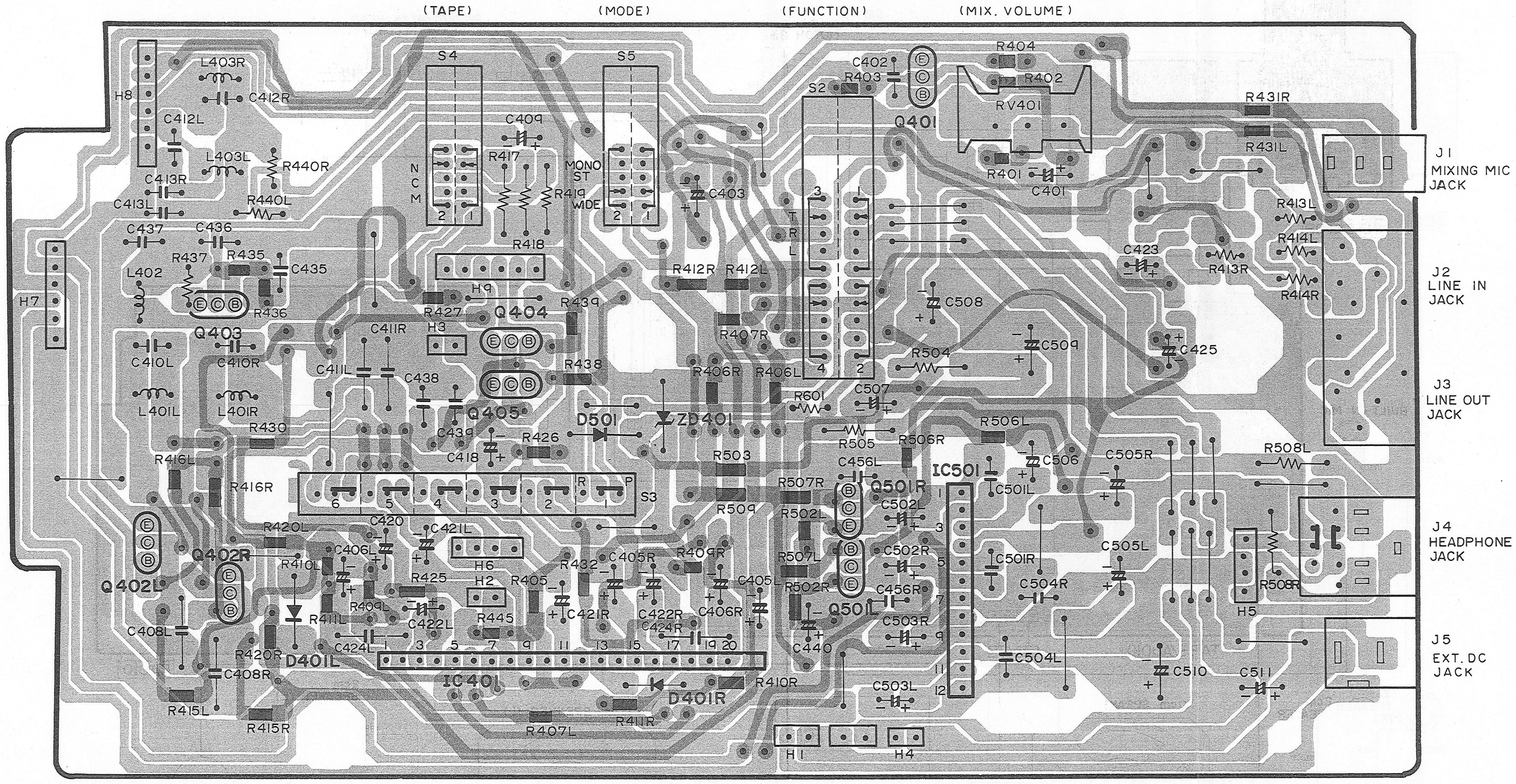
IC301

1	6.2V
2	1.5V
3	1.9V
4	1.5V
5	1.5V
6	
7	0V
8	0.2V
9	0.7V
10	1.6V
11	1.6V
12	
13	1.6V
14	1.6V
15	1.6V
16	2.7V

SCHEMATIC DIAGRAM (Tape Recorder Section)


Q401 2SC2320 MIX. MIC AMP
IC401 TA3012 MIC/PRE/LINE AMP ALC
D401L,R 1SS133 RECT. FOR ALC
Rch
Lch
J2 LINE IN JACK
GND
RADIO INPUT (R)
RADIO INPUT (L)
+B
FM STEREO INDI.
ST/MONO OUTPUT
H8
H7
GND
AF OUTPUT (R)
AF OUTPUT (L)
AF INPUT (L)
AF INPUT (R)
GND
J3 LINE OUT JACK
IC501 HA1392 POWER AMP
Q501L,R 2SC2785 SWITCHING
2cm SP Rch
4cm SP Rch
10cm SP Rch
10cm SP Lch
4cm SP Lch
2cm SP Lch
H5
J1 MIXING MIC JACK
RV401 10KA MIX. VOL.
BUILT IN MIC
H2
IC401
R/P HEAD
(R)
(L)
H6
S3-4 REC./P.B.
S3-5 REC./P.B.
ALC CONT.
UNTI-POP CONT.
REC./P.B. CONT.
MIC
LINE
EQ
PRE
VM
R/P
FUNCTION
S2-4 FUNCTION
S2-3
D401R
D401L
S5-1 MODE
Q402R
Q402L
S4-2 TAPE
S3-3 REC./P.B.
S3-2 REC./P.B.
ZD401
IC501
Q501L
Q501R
MUTING CONT.
J4 HEADPHONE JACK
S3-1 REC./P.B.
S2-2 FUNCTION
S2-1 FUNCTION
D501
J5 EXT. DC JACK
DC9V ("C" CELL X 6)
H1
H4
H9
L401R 33mH
L401L 33mH
ERASE HEAD
H3
Q403
Q404
Q405
L402
S3-6 REC./P.B.
S4-1 TAPE
S5-2 MODE
Q404 2SC2785 SWITCHING
Q405 2SC2785 SWITCHING
Q403 2SC1741R BIAS OSC.
ZD401 HZ6B
Q402L,R 2SC2785 SWITCHING
D702 1SS133
D501 1SS133 PROT.
IC801 AN6884 LED DRIVE
LED801–805 SEL1120R LEVEL INDI.
LED901 SEL1120R FM STEREO INDI.
LED902 SEL1120R OPERATION INDI.
IC801
LED DRIVE
LED801
LED 802 LED 803 LED 804 LED 805
LED901
LED902
D702
FF/REW. SW
S8 MOTOR SW
OFF
ON
DC MOTOR
SHOWS PRINTED RESISTORS

CIRCUIT BOARD DIAGRAM


(TAPE)
(MODE)
(FUNCTION)
(MIX. VOLUME)
S4
S5
S2
S3
N
C
M
MONO
ST
WIDE
T
R
L
H1
H2
H3
H4
H5
H6
H7
H8
H9
L401L
L401R
L402
L403L
L403R
Q401
Q402L
Q402R
Q403
Q404
Q405
Q501L
Q501R
IC401
IC501
D401L
D401R
D501
ZD401
RV401
R401
R402
R403
R404
R405
R407L
R407R
R406L
R406R
R409L
R409R
R410L
R410R
R411L
R411R
R412L
R412R
R413L
R413R
R414L
R414R
R415L
R415R
R416L
R416R
R417
R418
R419
R420L
R420R
R425
R426
R427
R430
R431L
R431R
R432
R435
R436
R437
R438
R439
R440L
R440R
R445
R502L
R502R
R503
R504
R505
R506L
R506R
R507L
R507R
R508L
R508R
R509
R601
C401
C402
C403
C405L
C405R
C406L
C406R
C408L
C408R
C409
C410L
C410R
C411L
C411R
C412L
C412R
C413L
C413R
C418
C420
C421L
C421R
C422L
C422R
C423
C424L
C424R
C425
C435
C436
C437
C438
C439
C440
C456L
C456R
C501L
C501R
C502L
C502R
C503L
C503R
C504L
C504R
C505L
C505R
C506
C507
C508
C509
C510
C511
E
C
B
J1
MIXING MIC
JACK
J2
LINE IN
JACK
J3
LINE OUT
JACK
J4
HEADPHONE
JACK
J5
EXT. DC
JACK

▬ SHOWS PRINTED RESISTORS

TAPE/AUDIO

Q402R		Q420L		Q401	
B	0V	B	0V	B	0.7V
C	0V	C	0V	C	2.1V
E	0V	E	0V	E	0.1V

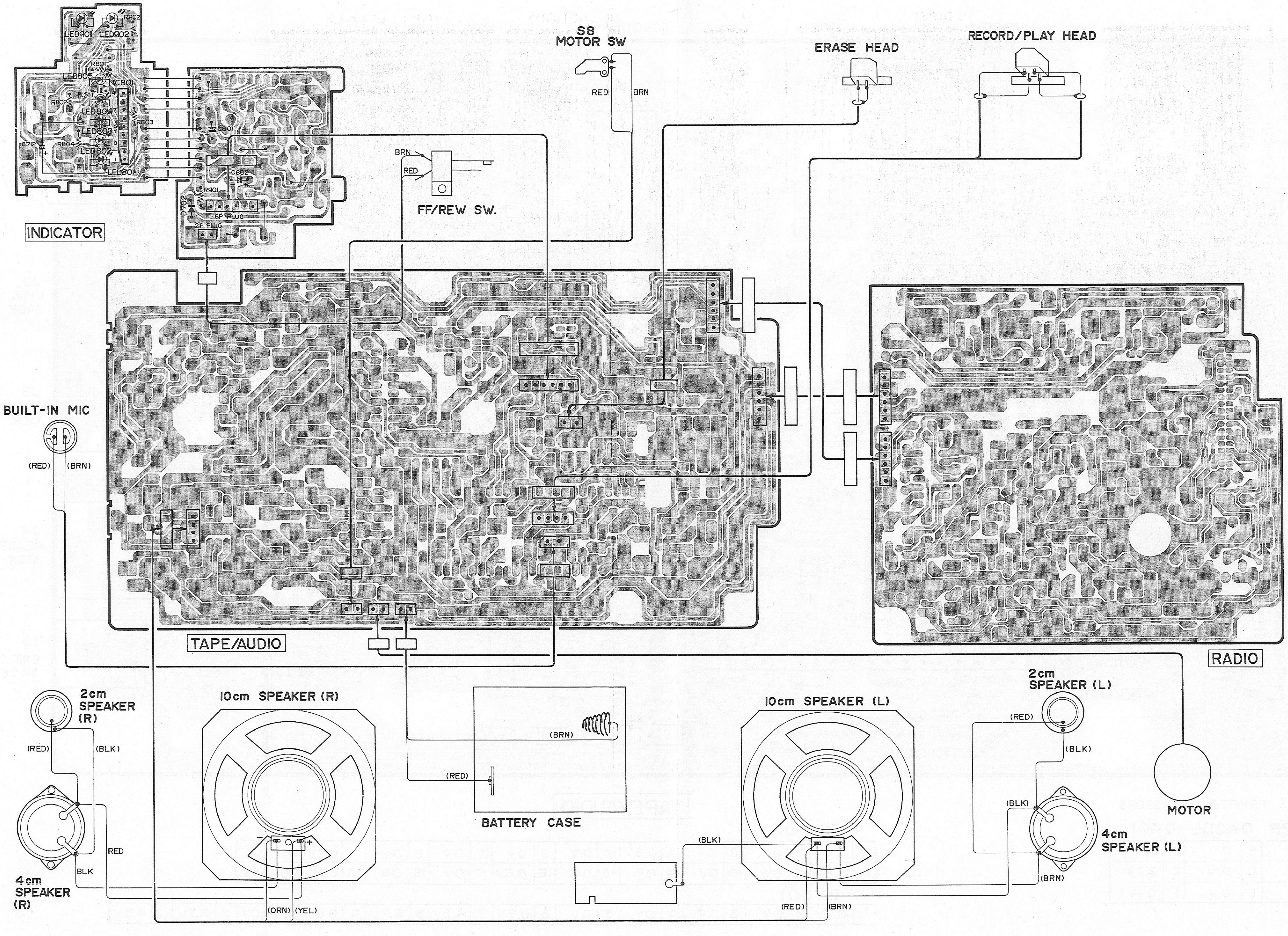
IC 401

1	3.4V	2	0V	3	0V	4	0.6V	5	0V	6	0V	7	0V	8	0V	9	0.6V	10	0V
11	0.6V	12	0V	13	0V	14	0V	15	0V	16	0.6V	17	0V	18	0V	19	6.2V	20	3.4V

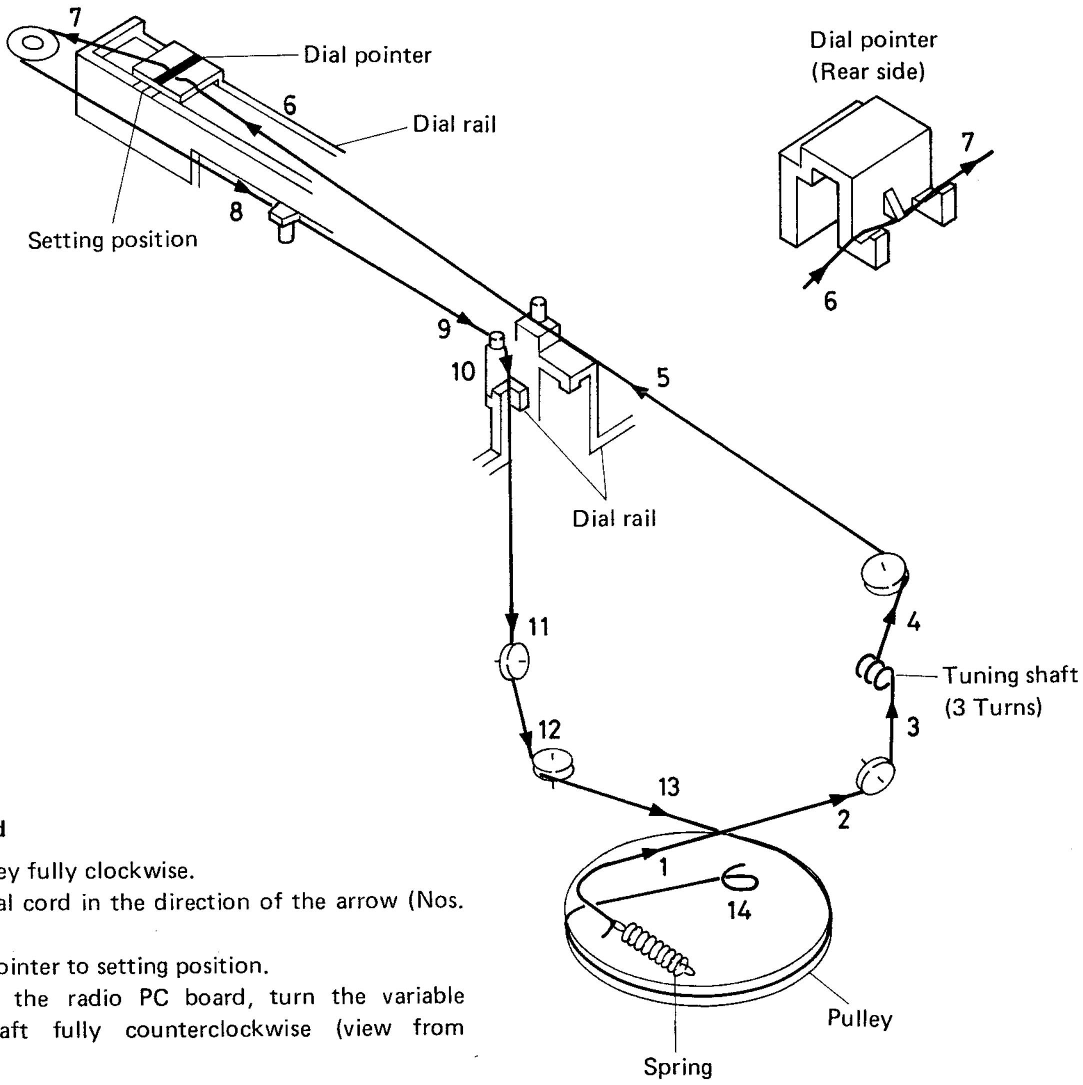
IC 501

1	0.7V	2	0V	3	3.9V	4	0V	5	0V	6	0.7V	7	4.5V	8	8.7V	9	0V	10	9.0V	11	8.7V	12	4.5V

WIRING DIAGRAM


LED901
LED902
R902
R801
LED805
IC801
R802
C711
LED804
R803
LED803
C712
R804
LED802
LED801
C801
C802
R901
D702
6P PLUG
2P PLUG
INDICATOR
BRN
RED
FF/REW SW.
S8
MOTOR SW
RED
BRN
ERASE HEAD
RECORD/PLAY HEAD
BUILT-IN MIC
(RED)
(BRN)
TAPE/AUDIO
RADIO
2cm
SPEAKER
(R)
(RED)
(BLK)
RED
BLK
4cm
SPEAKER
(R)
10cm SPEAKER (R)
(ORN)
(YEL)
(BRN)
(RED)
BATTERY CASE
(BLK)
10cm SPEAKER (L)
(RED)
(BRN)
2cm
SPEAKER (L)
(RED)
(BLK)
(BLK)
4cm
SPEAKER (L)
(BRN)
MOTOR

DIAL CORD STRINGING


7
Dial pointer
6
Dial rail
Setting position
8
9
10
5
Dial rail
Dial pointer
(Rear side)
7
6
11
4
Tuning shaft
(3 Turns)
3
12
13
2
1
14
Pulley
Spring

Stringing Method

1. Turn the pulley fully clockwise.
2. String the dial cord in the direction of the arrow (Nos. 1 – 14).
3. Set the dial pointer to setting position.
4. When install the radio PC board, turn the variable capacitor shaft fully counterclockwise (view from pattern side).

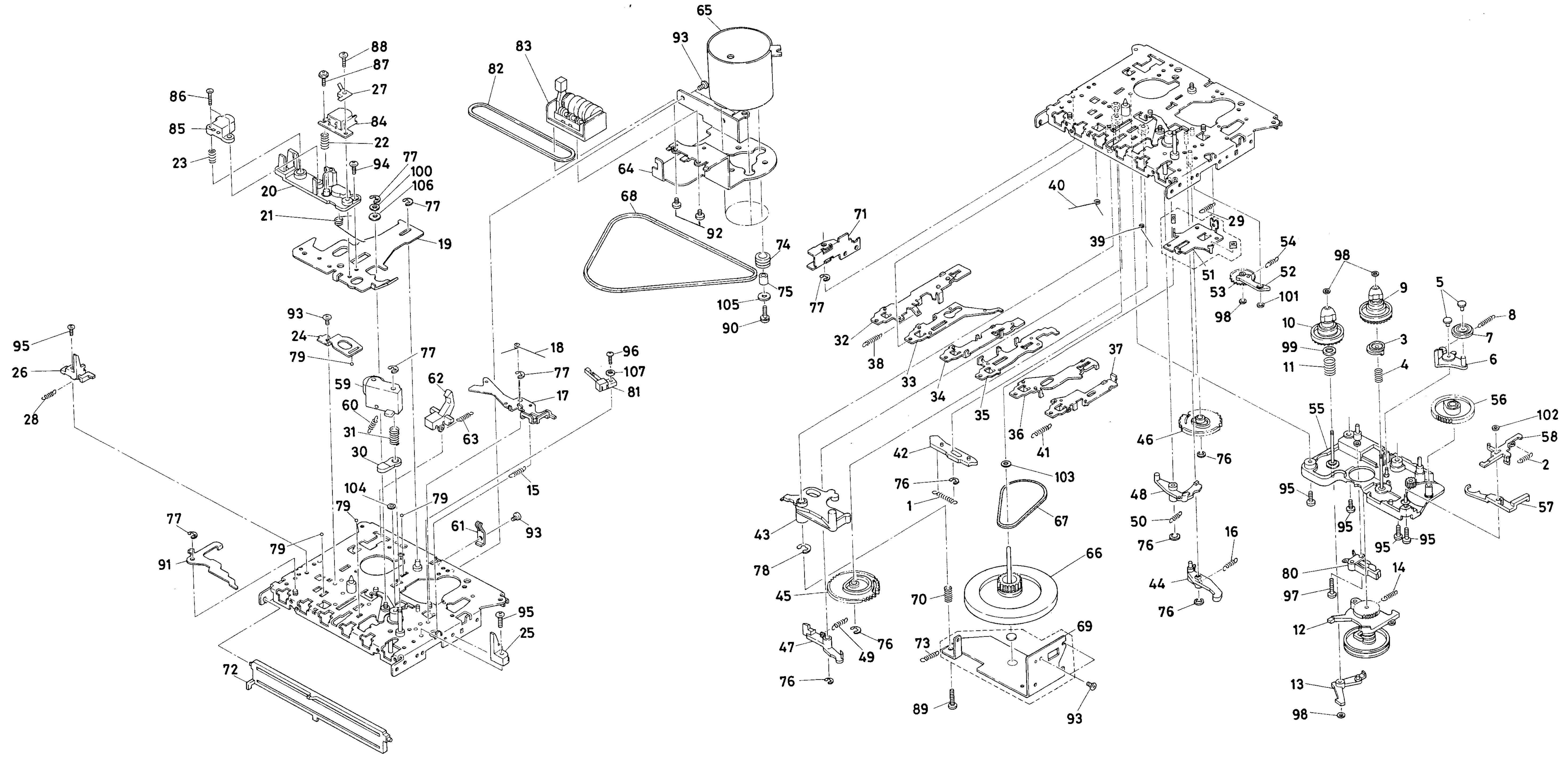
REPLACEMENT PARTS LIST

SYMBOL-NO	P-NO	DESCRIPTION
		MECHANISM (GT-5000)
1	6543251	SPRING FOR RECORD ARM
2	6543401	SPRING FOR AUTO ARM
3	6775261	AUTO CLUTCH ASSEMBLY
4	6521191	TENSION SPRING
5	6794491	BUSH
6	6775271	PLAY ARM
7	6332241	PLAY IDLER
8	6543231	SPRING FOR PLAY ARM
9	6432831	TAKE UP REEL ASSEMBLY
10	6432841	SUPPLY REEL ASSEMBLY
11	6521231	BACK TENSION SPRING
12	6775251	FR PULLEY ARM ASSEMBLY
13	6775291	REWIND ARM
14	6543321	SPRING FOR FR PULLEY ARM
15	6543281	SPRING FOR AUTO LOCK ARM
16	6543421	SPRING FOR FF/REWIND ARM
17	7353221	AUTO STOP PREVENTION LEVER
18	6548741	SPRING FOR AUTO STOP PREVENTION LEVER
19	7130031	HEAD PLATE
20	6775411	HEAD BASE
21	6548711	HEAD BASE SPRING
22	6521251	HEAD SPRING
23	6521221	HEAD SPRING
24	7353201	HEAD PLATE HOLDER
25	6775401	CASSETTE GUIDE(R)
26	6775391	CASSETTE GUIDE(L)
27	7351741	EARTH PLATE
28	6543221	SPRING

SYMBOL-NO	P-NO	DESCRIPTION
		MECHANISM (GT-5000)
29	6543381	BRAKE SPRING
30	6775371	PAUSE CAM
31	6521201	SPRING FOR PAUSE CAM
32	7353131	RECORD SLIDER
33	7353141	PLAY SLIDER
34	7353101	REWIND SLIDER ASSEMBLY
35	7353251	FF SLIDER
36	7353121	STOP SLIDER
37	7353111	PAUSE SLIDER ASSEMBLY
38	6543261	SPRING FOR RECORD SLIDER
39	6548[illegible]31	LEVER SPRING
40	[illegible]54[illegible]21	LEVER SPRING
41	6543321	SPRING FOR PAUSE SLIDER
42	6775331	RECORD ARM
43	6775351	FUNCTION ARM
44	6775361	FF/REWIND ARM
45	6432851	PLAY PA GEAR
46	6432861	FF/REWIND PA GEAR
47	6775321	PLAY LOCK ARM
48	6775341	FF/REWIND LOCK ARM
49	6543391	SPRING FOR FUNCTION ARM
50	6543241	SPRING FOR FF/REWIND LOCK ARM
51	7353291	BRAKE PLATE ASSEMBLY
52	6775301	FF GEAR ARM
53	6432821	FF GEAR
54	6543311	SPRING FOR FF GEAR
55	6775261	TURNTABLE HOLDER ASSEMBLY
56	6432811	AUTO GEAR
57	6775311	SENSER ARM
58	6775431	AUTO STOP ARM
59	6775231	PRESSURE ROLLER ARM ASSEMBLY
60	6543271	SPRING FOR PRESSURE ROLLER ARM
61	7353211	CASSETTE HOLDER
62	6775241	RECORD PREVENTION ARM
63	6543291	SPRING FOR RECORD PREVENTION ARM
64	7350491	MOTOR BRACKET
65	6428571	DC MOTOR ASSEMBLY
66	6374351	FLYWHEEL
67	6355831	BELT

SYMBOL-NO	P-NO	DESCRIPTION
68	6355811	BELT
69	7353311	FLYWHEEL BRACKET ASSEMBLY
70	6521211	ADJUST SPRING
71	7353261	RECORD LEVER
72	6775381	LOCK PLATE
73	6543411	SPRING FOR LOCK PLATE
74	6590961	MOTOR CUSHION
75	7353181	MOTOR RING
76	7772395	E RING
77	7774641	E RING-2.5MMD
78	7230903	E RING - 4MMD
79	0948492	BALL - 2MMD
80	5603671	LEAF SWITCH (S8, MOTOR SWITCH)
81	5603651	LEAF SWITCH
82	6355821	COUNTER BELT
83	5559611	COUNTER
84	5449271	RECORD PLAYBACK HEAD
85	5445501	ERASE HEAD
86	7782901	BIND SCREW-2MMDX9.5MM
87	7782911	PAN HEAD SCREW WITH LOCKING WASHER
88	8741108	BIND SCREW-2MMDx8MM
89	0741310	BIND SCREW-2.6MMDX10MM
90	8650908	SCREW WITH SPRING WASHER-2.6MMDX8MM
91	7353281	FR LOCK ARM
92	8781335	TAPPING SCREW 2.6MMD X 5MM
93	0671304	DT SCREW-2.6MMDX4MM
94	0678304	DT SCREW-2.6MMDX4MM(BLACK)
95	0678308	DT SCREW-2.6MMDX8MM(BLACK)
96	7780883	TAPPING SCREW-2MMDX6MM
97	7780916	BIND TAPPING SCREW-2MMDX12MM
98	7788541	WASHER
99	7783551	REEL WASHER
100	7788531	NYLON WASHER
101	7786211	POLYESTER WASHER
102	7786624	POLY SLIDER WASHER
103	778741[illegible]	POLY SLIDER WASHER
104	7786623	POLY SLIDER WASHER
105	8811113	WASHER - 2.6MMD
106	8811114	3D WASHER
107	8812111	WASHER-2MMD

EXPLODED VIEW (Mechanism-GT-5000)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87
27
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100
106
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107
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102
58
2
57
55
46
76
42
76
1
103
67
43
78
45
47
49
76
76
70
66
73
69
89
93
48
50
76
16
44
76
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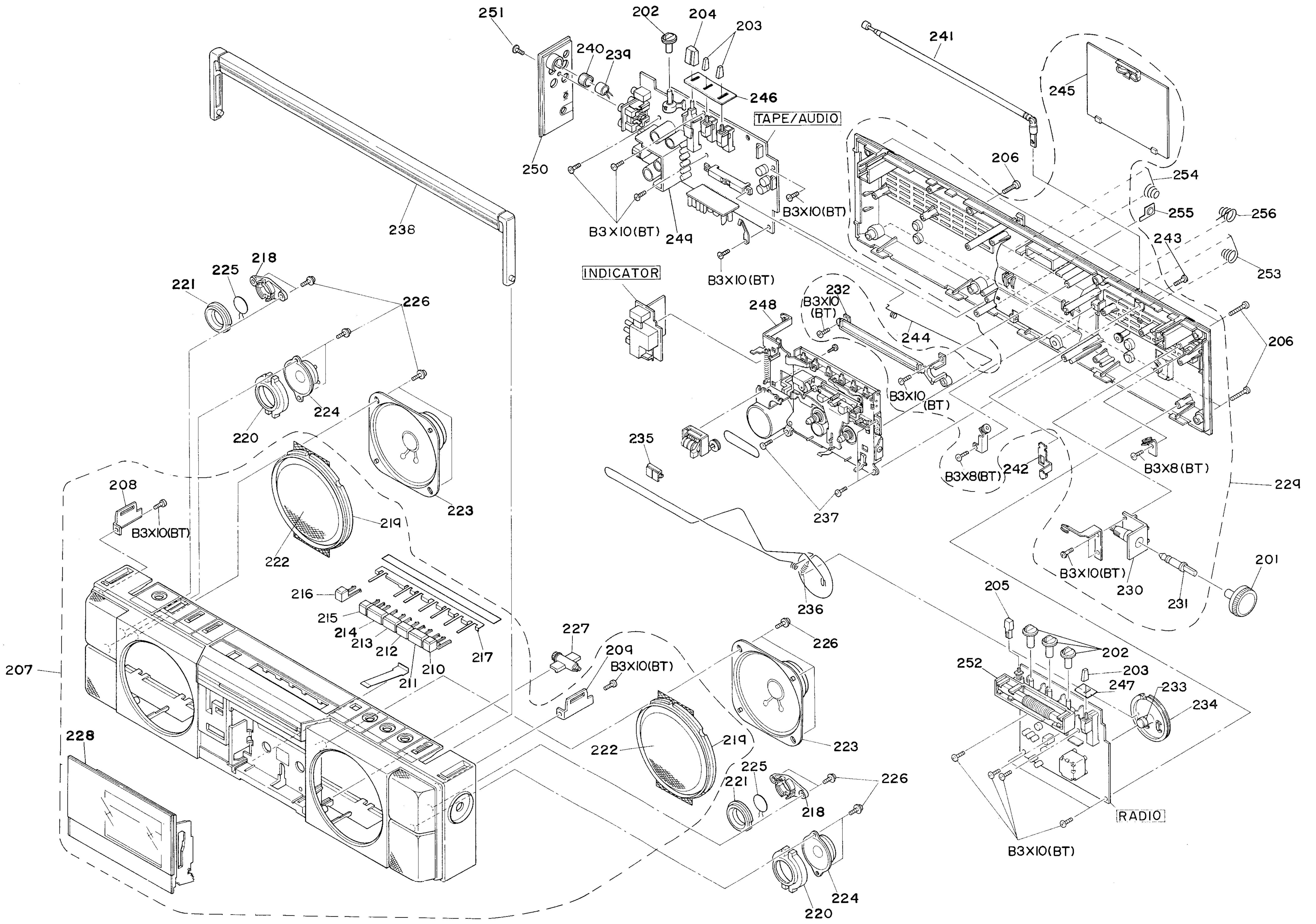
13
98

Note: Components marked without numbers in this drawing are not specified as replacement parts.

EXPLODED VIEW (Cabinet)


251
202
204
203
240
239
246
TAPE/AUDIO
250
B3X10(BT)
249
B3X10(BT)
B3X10(BT)
241
245
206
254
255
256
243
253
238
218
225
221
226
INDICATOR
232
B3X10
(BT)
248
244
206
224
220
B3X10
(BT)
235
242
B3X8(BT)
B3X8(BT)
223
229
208
B3X10(BT)
219
222
237
B3X10(BT)
230
231
201
216
215
214
213
212
211
210
217
236
205
227
209
B3X10(BT)
226
202
252
203
247
233
234
207
223
222
219
228
225
221
218
226
RADIO
B3X10(BT)
224
220

Note: Components marked without numbers in this drawing are not specified as replacement parts.

SYMBOL-NO	P-NO	DESCRIPTION
		MISCELLANEOUS
201	6284181	TUNING KNOB
202	6284191	KNOB (MIX. VOL, BASS, TREBLE, VOLUME)
203	6293281	LEVER KNOB (BAND, TAPE, MODE)
204	6293291	LEVER KNOB (FUNCTION)
205	6057851	PUSH BUTTON (LOUDNESS)
206	7781146	BT SCREW-3MMDX20MM
207	6037351	FRONT CASE ASSEMBLY
208	7350131	BELT HOLDER (L)
209	7350132	BELT HOLDER (R)
210	6060572	BUTTON(REC)
211	6060582	BUTTON(PLAY)
212	6060592	BUTTON(REWIND)
213	6060542	BUTTON(FF)
214	6060552	BUTTON(STOP)
215	6060562	BUTTON(PAUSE)
216	6060602	BUTTON(EJECT)
217	6536261	BUTTON SPRING
218	6774412	SPEAKER HOLDER
219	6774141	SPEAKER RING (WOOFER)
220	6774161	SPEAKER RING
221	6774153	SPEAKER RING (TWEETER)
222	6661071	SPEAKER METAL
223	5405511	SPEAKER-10CM
224	5401221	SPEAKER-4CM
225	5419071	SPEAKER-2CM
226	7781132	BT SCREW
227	6763961	GEAR DAMPER ASSEMBLY
228	6094256	CASSETTE LID ASSEMBLY
229	6037331	REAR CASE ASSEMBLY
230	6774131	TUNING HOLDER
231	7582021	TUNING SHAFT
232	6774111	DIAL RAIL ASSEMBLY
233	6310162	SPRING WASHER
234	6422991	PULLEY
235	6398921	POINTER
236	6316232	SPRING M
237	8699412	BIND TAPPING SCREW-3MMDX12MM(BLACK)
238	6334791	HANDLE ASSEMBLY
239	5421508	BUILT IN MICROPHONE
240	6570291	MIC COVER
241	5752742	ROD ANTENNA
242	7350161	ANTENNA TERMINAL
243	8678414	DT BIND SCREW-3MMDX14MM
244	6543461	RECORD SPRING
245	6774182	BATTERY LID ASSEMBLY
246	7740971	SPACER
247	7740961	SPACER
248	7350141	EJECT HOLDER ASSEMBLY
249	7421981	RADIATOR PLATE
250	6245281	JACK PLATE
251	7782291	OVAL SCREW-3MMDX12MM
252	6776261	ANTENNA HOLDER
253	6521021	BATTERY SPRING (+, –)
254	6521022	BATTERY SPRING (+, –)
255	7776401	BATTERY TERMINAL (+)
256	6521121	BATTERY SPRING (–)
		CAPACITORS
CT152	5058191	TRIMMER 10PF
CT154	5058191	TRIMMER 10PF
CV101-102	5052781	VARIABLE CAPACITOR
CV151-152	5052781	VARIABLE CAPACITOR
C102	0208129	CERAMIC (RESISTOR SHAPE) 10PF+-5%
C105	0248664	CERAMIC DISC 15PF+-0.25PF.NP-0
C106	0246415	CERAMIC, DISC CAPACITOR 5PF 0.25PF
C107	0246444	CERAMIC DISC 15PF+-5%
C157	0208131	CERAMIC (RESISTOR SHAPE) 15PF+-5%
C202	0209026	CERAMIC DISC (RESISTOR SHAPE) 0.01MF+–30%
C217	0209027	CERAMIC (RESISTOR SHAPE) 0.01MF+-30%
C408LR	0209021	CERAMIC DISC (RESISTORSHAPE) 1500PF+-10%
C411LR	0208141	CERAMIC DISC (RESISTOR SHAPE) 100PF+-5%
C424LR	0209026	CERAMIC DISC (RESISTOR SHAPE) 0.01MF+-30
C451LR	0209025	CERAMIC DISC (RESISTOR SHAPE) 6800PF+-30
		RESISTORS
RT301	5007696	SEMI VARIABLE 5KOHM(B)
RV401	5001181	VARIABLE RESISTOR 10KOHM(A)
RV451LR	5001172	VARIABLE RESISTOR 100KOHM(B)
RV452LR	5001173	VARIABLE RESISTOR 100KOHM(C)
RV453LR	5001171	VARIABLE RESISTOR 10KOHM(3B)
		SEMI-CONDUCTORS
D101	5331592	DIODE 1SS133
D102	5331592	DIODE 1SS133
D301	5331592	DIODE 1SS133
D401LR	5331592	DIODE 1SS133
D501	5331592	DIODE 1SS133
IC101	5351902	IC AN7213A
IC201	5355441	IC AN7223
IC301	5352961	IC AN7410N
IC401	5378231	IC TA3012

SYMBOL-NO	P-NO	DESCRIPTION
		SEMI-CONDUCTORS
IC501	5352141	IC HA1392
IC801	5355471	IC AN6884
LED801-805	5381091	LED SEL1120R
LED901	5381091	LED SEL1120R
LED902	5331091	LED SEL1120R
Q201	5323061	TRANSISTOR 2SC380TMD
Q401	5322621	TRANSISTOR 2SC2320E
Q402LR	5323261	TRANSISTOR 2SC2785
Q403	5322213	TRANSISTOR 2SC1741R
Q404-405	5323261	TRANSISTOR 2SC2785
Q501LR	5323261	TRANSISTOR 2SC2785
ZD201	5330711	ZENER DIODE HZ4BC
ZD401	5330392	ZENER DIODE SILICON HZ6B
		TRANSFORMERS
T101	5140071	FM IF
T151	5152372	AM IF
		COILS
L101	5126482	FM RF
L102	5126278	FM OSCILLATOR COIL
L151, 152	5117901	FERRITE ANTENNA
L153	5123679	SW OSCILLATOR COIL
L154	5120518	MW OSCILLATOR COIL
L201	5152324	CHOKE COIL 10 MICRO H +–10%
L401LR	5150571	CHOKE COIL 33MH
L402	5150579	CHOKE COIL 510MICRO H
L403LR	5150571	CHOKE COIL 33MH
		MISCELLANEOUS
BP101	5161551	FILTER
CF201-202	5160303	CERAMIC FILTER 10.7MHZ
CF203	5160061	CERAMIC FILTER 455KHZ
CF204	5160381	CERAMIC FILTER 10.7MHZ
J 1	5673381	JACK-3.5MMD (MIX. MIC.)
J 2-3	5676301	4P PIN JACK (LINE IN/LINE OUT)
J 4	5673432	JACK-3.5MMD (HEADPHONE)
J 5	5672091	DC JACK
S 1	5604563	LEVER SWITCH (BAND)
S 2	5604551	LEVER SWITCH (FUNCTION)
S3	5623272	SLIDE SWITCH (REC./P.B.)
S 4-5	5604561	LEVER SWITCH (TAPE, MODE)
S11	5633901	PUSH SWITCH (LOUDNESS)
		FOR ACCESSARIES
⚠	7092161	AC ADAPTER

HITACHI

HITACHI Ltd. TOKYO JAPAN
Head Office: THE HITACHI ATAGO BLDG.
No. 15-12, 2-Chome Nishi-Shinbashi
Minato-Ku, Tokyo 105, Japan
Tel. Tokyo (03) 502-2111

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